



SEQUENCE LISTING

<110> Terek, Richard M.

<120> CHONDROSARCOMA ASSOCIATED GENES

<130> 21486-021DIV

<140> US 09/819,144

<141> 2001-03-27

<160> 8

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 164

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)...(156)

<400> 1

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48

Met Ala Ala Gly Pro Arg Pro Gly Ala Pro Cys Arg Ala Gly Ala Pro
1 5 10 15

acg atc gta ttg acc tct gga aga aga cag aca ctt tcc cac ggg agc
96

Thr Ile Val Leu Thr Ser Gly Arg Arg Gln Thr Leu Ser His Gly Ser
20 25 30

tcc tct cca gcc aga gct aca ctt ggc aaa cct ttg gtc cta aat gat
144

Ser Ser Pro Ala Arg Ala Thr Leu Gly Lys Pro Leu Val Leu Asn Asp
35 40 45

tat tca ctg aat tgaagaaa
164

Tyr Ser Leu Asn
50

<210> 2

<211> 52

<212> PRT

<213> Homo sapiens

<400> 2

Met Ala Ala Gly Pro Arg Pro Gly Ala Pro Cys Arg Ala Gly Ala Pro
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Thr Ile Val Leu Thr Ser Gly Arg Arg Gln Thr Leu Ser His Gly Ser
20 25 30

Ser Ser Pro Ala Arg Ala Thr Leu Gly Lys Pro Leu Val Leu Asn Asp
 35 40 45
 Tyr Ser Leu Asn
 50

<210> 3
 <211> 884
 <212> DNA
 <213> Homo sapiens

<400> 3
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 120
 gggcgggggc tcccacgacg gtattgacct ctggaagaag acagacactt tcccacggga
 180
 gctcctctcc agccagagct acacttggca aacctttggt cctaaatgat tattcactga
 240
 attgaagaaa tacgggtttac atatcttcca agtatatatg tagggttgat ttgggaagca
 300
 gaacacagca gcccacattt gcttgtaatg tctgcgacta cagcctgctg gcctgccttc
 360
 actgtcttgg ggaagctcg gggagaccag gtggactgga gtagactgtg cagagacact
 420
 ggtctggtga agatgtccag gaaaccacga gcctccagcc cattttccaa caaccaccca
 480
 tcaacaccaa agaggttccc aagacaaccc agaagggaaa agggacccgt caaggaagtt
 540
 ccaggaacaa aaggctctcc ctaaaagacc accgcttcaa aaaaacctga ggaatggagt
 600
 gggccaacac tatccagcca ctctgaccag ccgaacgagg aactcaatca aaatgcgcca
 660
 tagcaggacc acaagggcaa ggagaccacc gccttctcca gtgcttcctt gggcagccag
 720
 taattcccag gcaaggccag agacttcaag tctatctgaa aagtctccag aagtctaacc
 780
 ccagataaat agccaacagg gtgtagagta cgttttacac ccaaagggtg atgccccatg
 840
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 884

<210> 4
 <211> 14
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Artificial sequence

<220>
 <221> misc_feature
 <222> (1)...(14)
 <223> n = A,T,C or G

<400> 4

tttttttttt ttvn
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<210> 5
<211> 1946
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1) ... (1946)
<223> n = A,T,C or G

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120
cgagatagtg agccgttctc caaccctttg gcccccgatg gccacgatgt ggatgatcct
180
cactccttcc accaatcaaa actcaccaat gaagacttca ggaaantnnt catgaccccc
240
aggngtcac ntacntntgc accacnttnt aantnnnntc accatgagat gccaagggag
300
tacaatgagg atgaagaccc agctgcacga aggaggaaaa agaaaagtta ttatgccaag
360
ctacgccaac aagaaattga gagagagaga gagctagcag agaagtaccg ggatcgtgcc
420
aaggaacgga gagatggagt gaacaaagat tatgaagaaa ccgagcttat cagcaccaca
480
gctaactata gggctgttgg cccactgct gaggcggaca aatcagctrc agnnragaga
540
agacanwnda hcnaggagtc caaattcttg ggtggtgaca tggaacacac ccatttggtg
600
aaaggcttgg attttgntnt gcttchnaan gtncgagctg agattgncms cmnanaraaa
660
nargaarang nnctgatggn aaancccmg aaagaaacca agaaagatga ggatcctgaa
720
aataaaaattg aatttaaaac acgtctgggc cgcaatgttt accgaatgct ttttaagagc
780
aaagcatatg agcggaatga gttgttcctg ccgggccgca tggcctatgt ggtagacctg
840
gatgatgagt atgctgacac agatatcccc accactctta tcccgcagca aggctgattg
900
ccccaccatg gagggcccaga ccacactgac cacaaatgac attgtcatta gcaagctgac
960
ccagatcctt tcatacctga ggcagggaac ccgtaacaag aagcttaaga agaaggataa
1020
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1080
ggattacgta ccctccacaa ccaagacacc tcggggacaag gagcgggaga gatatcggga
1140
acgggagcgt gatcgggaaa gagacagaga ccgtgaccga gagcgagagc gagaacgaga
1200
tcgggaacga gagcgagagc gggaccgaga gagagaagag gaaaagaaga gacacagcta
1260

ctttgagaag ccaaaagtag atgatgagcc catggacggt gacaaaggac ctgggtctac
 1320
 caaggagttg atcaagtcca tcaatgaaaa gtttgctggg tctgctggct ggggaaggcac
 1380
 agaatcgctg aagaagccag aagacaaaaa gcagctggga gatttctttg gcatgtccaa
 1440
 cagttatgca gagtgctacc cagccacgat ggatgacatg gctgtggata gtgatgagga
 1500
 ggtggattat agcaaaatgg accagggtaa caagaagggg cccttaggcc gttgggactt
 1560
 tgatacccag gaagaataca gcgagtatat gaacaacaaa gaagctttgc ccaaggctgc
 1620
 attccagtat ggtatcaaaa tgtctgaagg gcggaaaacc aggcgcttca aggaaaccaa
 1680
 tgacaaagca gagcttgatc gccagtggaa gaagattagt gcaatcattg angaagagga
 1740
 agaagatgga agctgatggg gttgaagtca aaagaccaa atactaatca ctagttacaa
 1800
 ccagagatgc tccacaagga tatgctcccc actgttttct ttctacaatt tccaaagggt
 1860
 gcaagatggt tttttgtgat gaatataaaa ttttattgtg taattacttg gttccattaa
 1920
 aattgggtta cttgctaaaa aaaaaa
 1946

<210> 6
 <211> 915
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1)...(912)

<220>
 <221> misc_feature
 <222> (1)...(915)
 <223> n = A,T,C or G

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 Met Met Ser Met Leu Thr Gln Ile Ser Pro Pro Leu Leu Ser Arg Ser
 1 5 10 15
 aag gct gat tgc ccc acc atg gag gcc cag acc aca ctg acc aca aat
 96
 Lys Ala Asp Cys Pro Thr Met Glu Ala Gln Thr Thr Leu Thr Thr Asn
 20 25 30
 gac att gtc att agc aag ctg acc cag atc ctt tca tac ctg agg cag
 144
 Asp Ile Val Ile Ser Lys Leu Thr Gln Ile Leu Ser Tyr Leu Arg Gln
 35 40 45
 gga acc cgt aac aag aag ctt aag aag aag gat aaa ggg aag ccg gaa
 192

Gly Thr Arg Asn Lys Lys Leu Lys Lys Lys Asp Lys Gly Lys Pro Glu
 50 55 60
 gag aag aaa cct cct gag gct gac atg aat att ttt gaa gac att ggg
 240
 Glu Lys Lys Pro Pro Glu Ala Asp Met Asn Ile Phe Glu Asp Ile Gly
 65 70 75 80
 gat tac gta ccc tcc aca acc aag aca cct cgg gac aag gag cgg gag
 288
 Asp Tyr Val Pro Ser Thr Thr Lys Thr Pro Arg Asp Lys Glu Arg Glu
 85 90 95
 aga tat cgg gaa cgg gag cgt gat cgg gaa aga gac aga gac cgt gac
 336
 Arg Tyr Arg Glu Arg Glu Arg Asp Arg Glu Arg Asp Arg Asp Arg Asp
 100 105 110
 cga gag cga gag cga gaa cga gat cgg gaa cga gag cga gag cgg gac
 384
 Arg Glu Arg Glu Arg Glu Arg Asp Arg Glu Arg Glu Arg Glu Arg Asp
 115 120 125
 cga gag aga gaa gag gaa aag aag aga cac agc tac ttt gag aag cca
 432
 Arg Glu Arg Glu Glu Glu Lys Lys Arg His Ser Tyr Phe Glu Lys Pro
 130 135 140
 aaa gta gat gat gag ccc atg gac gtt gac aaa gga cct ggg tct acc
 480
 Lys Val Asp Asp Glu Pro Met Asp Val Asp Lys Gly Pro Gly Ser Thr
 145 150 155 160
 aag gag ttg atc aag tcc atc aat gaa aag ttt gct ggg tct gct ggc
 528
 Lys Glu Leu Ile Lys Ser Ile Asn Glu Lys Phe Ala Gly Ser Ala Gly
 165 170 175
 tgg gaa ggc aca gaa tcg ctg aag aag cca gaa gac aaa aag cag ctg
 576
 Trp Glu Gly Thr Glu Ser Leu Lys Lys Pro Glu Asp Lys Lys Gln Leu
 180 185 190
 gga gat ttc ttt ggc atg tcc aac agt tat gca gag tgc tac cca gcc
 624
 Gly Asp Phe Phe Gly Met Ser Asn Ser Tyr Ala Glu Cys Tyr Pro Ala
 195 200 205
 acg atg gat gac atg gct gtg gat agt gat gag gag gtg gat tat agc
 672
 Thr Met Asp Asp Met Ala Val Asp Ser Asp Glu Glu Val Asp Tyr Ser
 210 215 220
 aaa atg gac cag ggt aac aag aag ggg ccc tta ggc cgt tgg gac ttt
 720
 Lys Met Asp Gln Gly Asn Lys Lys Gly Pro Leu Gly Arg Trp Asp Phe
 225 230 235 240

gat acc cag gaa gaa tac agc gag tat atg aac aac aaa gaa gct ttg
768

Asp Thr Gln Glu Glu Tyr Ser Glu Tyr Met Asn Asn Lys Glu Ala Leu
245 250 255

ccc aag gct gca ttc cag tat ggt atc aaa atg tct gaa ggg cgg aaa
816

Pro Lys Ala Ala Phe Gln Tyr Gly Ile Lys Met Ser Glu Gly Arg Lys
260 265 270

acc agg cgc ttc aag gaa acc aat gac aaa gca gag ctt gat cgc cag
864

Thr Arg Arg Phe Lys Glu Thr Asn Asp Lys Ala Glu Leu Asp Arg Gln
275 280 285

tgg aag aag att agt gca atc att gan gaa gag gaa gaa gat gga agc
912

Trp Lys Lys Ile Ser Ala Ile Ile Xaa Glu Glu Glu Glu Asp Gly Ser
290 295 300

tga
915

<210> 7
<211> 304
<212> PRT
<213> Homo sapiens

<220>
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<222> (1)...(304)
<223> Xaa = Any Amino Acid

<400> 7

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Lys	Ala	Asp	Cys	Pro	Thr	Met	Glu	Ala	Gln	Thr	Thr	Leu	Thr	Thr	Asn
			20					25						30	
Asp	Ile	Val	Ile	Ser	Lys	Leu	Thr	Gln	Ile	Leu	Ser	Tyr	Leu	Arg	Gln
		35					40					45			
Gly	Thr	Arg	Asn	Lys	Lys	Leu	Lys	Lys	Lys	Asp	Lys	Gly	Lys	Pro	Glu
		50				55					60				
Glu	Lys	Lys	Pro	Pro	Glu	Ala	Asp	Met	Asn	Ile	Phe	Glu	Asp	Ile	Gly
					70					75					80
Asp	Tyr	Val	Pro	Ser	Thr	Thr	Lys	Thr	Pro	Arg	Asp	Lys	Glu	Arg	Glu
				85					90					95	
Arg	Tyr	Arg	Glu	Arg	Glu	Arg	Asp	Arg	Glu	Arg	Asp	Arg	Asp	Arg	Asp
			100					105						110	
Arg	Glu	Arg	Glu	Arg	Glu	Arg	Asp	Arg	Glu	Arg	Glu	Arg	Glu	Arg	Asp
		115					120					125			
Arg	Glu	Arg	Glu	Glu	Glu	Lys	Lys	Arg	His	Ser	Tyr	Phe	Glu	Lys	Pro
		130				135					140				
Lys	Val	Asp	Asp	Glu	Pro	Met	Asp	Val	Asp	Lys	Gly	Pro	Gly	Ser	Thr
					150					155					160
Lys	Glu	Leu	Ile	Lys	Ser	Ile	Asn	Glu	Lys	Phe	Ala	Gly	Ser	Ala	Gly
				165					170						175

Trp	Glu	Gly	Thr	Glu	Ser	Leu	Lys	Lys	Pro	Glu	Asp	Lys	Lys	Gln	Leu
			180					185					190		
Gly	Asp	Phe	Phe	Gly	Met	Ser	Asn	Ser	Tyr	Ala	Glu	Cys	Tyr	Pro	Ala
		195					200					205			
Thr	Met	Asp	Asp	Met	Ala	Val	Asp	Ser	Asp	Glu	Glu	Val	Asp	Tyr	Ser
	210					215					220				
Lys	Met	Asp	Gln	Gly	Asn	Lys	Lys	Gly	Pro	Leu	Gly	Arg	Trp	Asp	Phe
225					230					235				240	
Asp	Thr	Gln	Glu	Glu	Tyr	Ser	Glu	Tyr	Met	Asn	Asn	Lys	Glu	Ala	Leu
			245					250						255	
Pro	Lys	Ala	Ala	Phe	Gln	Tyr	Gly	Ile	Lys	Met	Ser	Glu	Gly	Arg	Lys
		260					265						270		
Thr	Arg	Arg	Phe	Lys	Glu	Thr	Asn	Asp	Lys	Ala	Glu	Leu	Asp	Arg	Gln
	275						280					285			
Trp	Lys	Lys	Ile	Ser	Ala	Ile	Ile	Xaa	Glu	Glu	Glu	Glu	Asp	Gly	Ser
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<210> 8
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 8
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 1 5 10 15

□